

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

MIKULECKY, Klaus
Clariant Service GmbH
Am Unisys-Park 1
65843 Sulzbach
ALLEMAGNEClariant GmbH
Patente, Marken, Lizenzen
Akte / Vorg.

Eing. 19. Jan. 2004

☐ WV☐ ablegen☐ verteilen005 an
Dr. Falk el. 20.1.04Date of mailing (day/month/year)
08 January 2004 (08.01.2004)Applicant's or agent's file reference
2002DE422

IMPORTANT NOTICE

International application No.
PCT/EP2003/006264International filing date (day/month/year)
13 June 2003 (13.06.2003)Priority date (day/month/year)
28 June 2002 (28.06.2002)

Applicant

CLARIANT INTERNATIONAL LTD et al

1. Notice is hereby given that the International Bureau has **communicated**, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

CN, EP, JP, RU, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

BR, CA, MX, ZA

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 08 January 2004 (08.01.2004) under No. WO 2004/003128

4. **TIME LIMITS** for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pc/en/index.html>.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

MIS

Eing. am 19.01.04 von
Prüg. am vonThe International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Gijsbertus Beijer - Carlos Roy

Facsimile No.(41-22) 740.14.35

Telephone No.(41-22) 338.91.11

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
8. Januar 2004 (08.01.2004)

PCT

(10) Internationale Veröffentlichungsnummer
WO 2004/003128 A1

(51) Internationale Patentklassifikation: **C12H 1/044**,
A23L 2/72

Lönsstrasse 8, 63486 Bruchköbel (DE). JACQUINOT,
Eric [FR/FR]; 4, rue de la Pierre Sautée, F-60350 Trosly
Breuil (FR). PERARD, Marie, Laure [FR/FR]; 9, rue
Charles Faroux, Apt. 20, F-60200 Compiègne (FR).

(21) Internationales Aktenzeichen: PCT/EP2003/006264

(22) Internationales Anmeldedatum:
13. Juni 2003 (13.06.2003)

(74) Anwalt: MIKULECKY, Klaus; Clariant Service GmbH,
Am Unisys-Park 1, 65843 Sulzbach (DE).

(25) Einreichungssprache: Deutsch

(81) Bestimmungsstaaten (*national*): BR, CA, CN, JP, MX,
RU, US, ZA.

(26) Veröffentlichungssprache: Deutsch

(84) Bestimmungsstaaten (*regional*): europäisches Patent (AT,
BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(30) Angaben zur Priorität:
102 29 047.4 28. Juni 2002 (28.06.2002) DE

Veröffentlicht:

— mit internationalem Recherchenbericht

(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von
US): CLARIANT INTERNATIONAL LTD [CH/CH];
Rothausstrasse 61, CH-4132 Muttenz (CH).

Zur Erklärung der Zweibuchstaben-Codes und der anderen Ab-
kürzungen wird auf die Erklärungen ("Guidance Notes on Co-
des and Abbreviations") am Anfang jeder regulären Ausgabe der
PCT-Gazette verwiesen.

(72) Erfinder; und

(75) Erfinder/Anmelder (nur für US): FALK, Uwe [DE/DE];



WO 2004/003128 A1

(54) Title: USE OF COLLOIDAL ANIONIC SILICA SOLS AS CLARIFYING AGENTS

(54) Bezeichnung: VERWENDUNG KOLLOIDALER ANIONISCHER KIESELSOLE ALS KLÄRUNGSMITTEL

(57) Abstract: The invention relates to the use of colloidal, anionic silica sols having a pH of between 1 and 5.5, a particle diameter of between 4 and 150 nm, and a surface of between 20 and 700 m²/g, for the clarification and stabilisation of liquid foodstuffs.

(57) Zusammenfassung: Gegenstand der Erfindung ist die Verwendung kolloidaler, anionischer Kieselsole mit einem pH von 1 bis 5,5, einem Teilchendurchmesser von 4 bis 150 nm und einer Oberfläche von 20 bis 700 m²/g zur Klärung und Stabilisierung von flüssigen Lebensmitteln.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/06264

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C12H1/044 A21C 1/72

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C12H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 24 08 896 A (BAYER AG) 28 August 1975 (1975-08-28) page 2; examples page 4, paragraphs 1-3 page 5, paragraphs 4-6 ---	1-8
A	DE 32 31 240 A (RAIBLE KARL) 23 February 1984 (1984-02-23) page 3, paragraph 2; claims 1,3 ---	1-8
A	DE 197 07 332 C (BAD KOESTRITZ CHEMIEWERK GMBH) 29 January 1998 (1998-01-29) claims ---	1-8
A	DE 16 42 769 A (DEGUSSA) 13 April 1972 (1972-04-13) cited in the application claim ---	1-8
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

14 October 2003

Date of mailing of the international search report

22/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Koch, J

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/06264

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 21 33 906 A (MONSANTO CHEMICALS LTD.) 27 January 1972 (1972-01-27) page 6-8	1-8
A	DE 30 15 439 A (BAYER AG) 29 October 1981 (1981-10-29) page 7	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP 03/06264

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 2408896	A	28-08-1975	DE 2408896 A1	28-08-1975
			AT 336527 B	10-05-1977
			AT 134775 A	15-09-1976
			CH 610595 A5	30-04-1979
			ES 434940 A1	16-12-1976
			FR 2262112 A1	19-09-1975
			IT 1029821 B	20-03-1979
			US 4027046 A	31-05-1977
			ZA 7501099 A	28-01-1976
DE 3231240	A	23-02-1984	DE 3231240 A1	23-02-1984
DE 19707332	C	29-01-1998	DE 19707332 C1	29-01-1998
DE 1642769	A	13-04-1972	DE 1642769 A1	13-04-1972
			BE 713127 A	16-08-1968
			CH 532122 A	31-12-1972
			DK 118453 B	24-08-1970
			FR 1561616 A	28-03-1969
			GB 1151476 A	07-05-1969
			NL 6803615 A ,B,	07-10-1968
			SE 344759 B	02-05-1972
			US 3554759 A	12-01-1971
DE 2133906	A	27-01-1972	BE 769529 A1	16-11-1971
			DE 2133906 A1	27-01-1972
			FR 2100345 A5	17-03-1972
			GB 1306446 A	14-02-1973
			NL 7109099 A	11-01-1972
DE 3015439	A	29-10-1981	DE 3015439 A1	29-10-1981